

REFERENCE MANUAL

Modular **C**omposition **S**ystem

PREVIEW OPTION

(Addendum)

Part No. 214808-002

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FOREWORD

This manual describes the operating procedures for the **Modular Composition System Preview**. Due to the many forms of applications, the recommended procedures should be adhered to.

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This manual describes the operating procedure for the **MCS (Modular Composition System) Preview**. This manual is intended to be a supplement to existing MCS operating manuals. Before using the Preview, operators should be familiar with the operation of the MCS.

The MCS Preview Option allows the user to view a representation of copy as it will appear in final form before it is typeset. Files can be viewed directly from the MCS diskette or from the MCS screen in actual, 50% or 200% size.

Modifications of copy stored on the MCS disk can be made by calling the file to the MCS screen, previewing the job on the Preview screen, correcting any errors and previewing again to verify corrections. The corrected job may then be stored and/or typeset.

The MCS Preview option consists of the Preview Screen, Preview Controller and an Auxiliary Keypad. Two mini floppy disks are also included with the option. They are, the Font Loading Configuration Disk #695493-XXXX* and the Preview Program Disk #695492-XXXX*.

* The XXXX in these part numbers indicates that this portion of the part number will change if any updates are made to the disks. For the initial release the dash numbers will be 1001. the basic numbers will always be 695493 and 695492.

NOTE: This is Revision 2 of the Preview manual and contains updates required to operate the system with revised MCS/Preview software. Operators who have used earlier software should read this manual to familiarize themselves with the changes in operating procedures.

CHARACTER REPRESENTATION

The Preview displays jobs with type sized and positioned properly. The typefaces are however only a representation of what will appear on the typeset job. Bold, Italic and Bold/Italic are created artificially and character shapes are limited to serif or sans serif. Therefore, some interpretation is necessary and smaller type may not be clearly defined.

VIEWING AREA

In Normal Scale the Preview displays an area 48 picas wide by 61.8 picas deep. There is also another 22.3 picas below the screen that may be scrolled up into view. Thus the maximum displayable depth is 84 picas. Any item that exceeds this depth will overflow the memory necessitating handling the job in segments. If this happens the Preview will stop the display and give the message "MORE" indicating the job is not all displayed. To see more of the job **CONT DISP** must be hit. This will erase the screen and bring in the next job segment.

To see any portions of the job beyond the 48 pica line measure the job must be shifted left 24 or 48 picas using the **SHIFT 24P** or **SHIFT 48P** keys. These keys must be hit before calling for input via the **CONT DISP** key.

When in the **SCALE DOWN** (50%) mode, the area of the job that may be viewed is 72 picas wide by 92.7 deep with scrolling available to 126.4 picas. As with Normal Scale, items that go below this depth will break the job into segments. This mode allows the user to get an overall picture of larger jobs but makes the smaller type more difficult to read.

The **SCALE UP** (200%) mode handles an area 24 picas wide by 30.9 picas deep with scrolling to a depth of 42.1 picas. This mode allows viewing of job details more closely, but due to the limited depth will break large jobs in many segments. In the 200% mode the Shift Left keys are needed to see portions of the job beyond 24 picas.

CHARACTER SIZE

If the Preview is operated with an MCS using an 8600 operating program or if jobs with large point size type are scaled up, some characters may become too large for the Preview to display them. When this happens the character in question will not appear on the screen. In its place the Preview will display a half intensity cross hatch pattern.

Depending on the size of the type being displayed whole sentences or just single letters out of words may be lost when this happens. The preview will space out properly for any letters that are not displayed. Therefore, the operator gets a representation of the job despite the missing letters.

MCS COMMANDS

Four additions are made to the MCS command set to control Preview operation. They are:

FILE FUNC/D/R/E/S/S/EXECUTE — Transfers the active MCS dress directly to the Preview to provide the Preview with the widths of the fonts in the dress file. The Preview can store widths for 32 fonts at one time.

FILE FUNC/P/R/O/O/F/EXECUTE — Transfers the page that the MCS has active directly to the Preview.

QUEUE/P/V/????/EXECUTE — Used to put a file into the Preview Queue. The question marks indicating the file name. The MCS handles the Preview Queue just as it handles the Typesetter Queue.

SYS CMD/R/E/S/P/V/EXECUTE — Resets the Preview Queue. Eliminates any files or error messages present to restore full capacity of up to eight file names.

MCS MESSAGES

The following messages will appear in the MCS status lines to provide information about Preview operation:

Queue:PV — Indicates the MCS is ready to assign a file to the Preview Queue.

PV Job XX — Indicates a job is assigned to the Preview Queue. The XX will be the number of jobs queued since the MCS was last booted up.

PV XX Data — Indicates something in the job assigned number XX does not meet MCS parameters. The error can be located by calling the job and composing it.

FTN:PROOF — Indicates the MCS proof mode is invoked.

PV Job EP — Indicates a proof of the page currently on the MCS screen has been sent to the Preview.

PV Busy — Indicates a proof has been attempted with an active job in the Preview Queue. The queue must be empty to proof a page.

Reset PV — Indicates the Preview Queue is to be reset.

PV Job PD — Indicates the active MCS Dress file is being transferred to the Preview.

Mode:C — Indicates the file being entered into the Preview Queue should be handled as configuration information by the Preview.

Mode:D — Indicates the file being put into the Preview Queue should be displayed as a Preview job.

PREVIEW KEYPAD

The Preview keypad has 16 keys only 14 of which are used. The following list gives the function of these keys:

RESET — Resets the Preview, causes the screen to go blank and clears any functions that may be set.

CONF LOAD (Configuration Load) — Prepares the Preview to receive configuration data from the MCS.

SCALE NORM (Scale Normal) — When in the normal scale the Preview will display all jobs in the proportions in which they will typeset.

SCALE UP — Jobs will display at twice normal size so they may be examined more closely. Scale Up will stay in effect until Reset or Scale Normal is hit.

SCALE DOWN — Jobs display at half size so jobs too large for the Preview screen may be examined in one piece. Scale Down will stay in effect until Reset or Scale Normal is hit.

SCRL UP (Scroll Up) — Used to bring portions of the displayed job that go below the bottom of the Preview screen into view.

SHIFT NORM (Shift Normal) — The left margin of the job will be at the left margin of the Preview screen.

SHIFT 24P (Shift Left 24 Picas) — Moves the left margin of the next display left 24 picas. Allows the right hand portions of jobs too wide for the Preview screen to be examined. Shift will stay in effect until Reset or Shift Normal is hit.

SHIFT 48P (Shift Left 48 Picas) — Moves the left margin of the next display left 48 picas. Shift will stay in effect until Reset or Shift Normal is hit.

SCRL DOWN (Scroll Down) — Brings the top of jobs that have been scrolled up back into view.

VIEW — Brings the display back into view after it has gone off as a result of a time out.

NEXT FILE — Used when displaying jobs that exceed the size of the display area and thus must be brought to the screen in segments. Hitting Next File will call each remaining segment of the job, without stopping until the job is complete. This allows the operator to pass through the job on the screen to the first segment of the following job with one keystroke.

APND FILE (Append File) — Calls the next job in queue to the screen without erasing the screen. This allows the operator to mix jobs on the screen. Jobs may be added until the display area is filled.

CONT DISP (Continue Display) — This key will erase the Preview screen and bring in the next segment of the current job. If the current job is complete the first segment of the next job in the Preview Queue will be called.

NOTE: The **CONF LOAD**, **CONT DISP** and **APND FILE** keys put the Preview in a state expecting input from the MCS. To indicate this, when one of these keys is hit, the Preview status line will blink with an appropriate message to indicate the Preview is waiting for input. These messages are **LOAD CONFIG.**, **DISPLAY** and **APPEND** respectively. The status line will time out after two minutes if no input is received. However, the Preview will still be ready for input and will respond to anything received.

Using the Preview Queue

To send information to the Preview the MCS has a queue similar to the typesetting queue. When the MCS operator keys **QUEUE/P/V** the following Status Line will appear on the MCS screen:

```
Queue:PV  Mode:?  D:??  Fn:█
```

The black box represents the cursor as it will appear on the screen. The question marks shown in this example will not appear, in reality there will be values in these locations which must be examined and possibly changed as described below. The first thing the operator will do is to type the name of the file to be entered into the queue. As an example the name **TEST** will be entered. The status line will look like this:

```
Queue:PV  Mode:?  D:??  Fn:TEST█
```

The operator must then decide if the information represented by question marks in this example is correct. If changes are needed. Hitting the cursor left key twice will bring the cursor to the Mode section of the status line. Causing the status line to look like this:

```
Queue:PV  Mode:█  D:??  Fn:TEST
```

Two types of jobs may be sent from the MCS to the Preview. They are display files or configuration files. Display jobs are shown on the Preview screen as representations of typeset jobs. Configuration jobs are used to set up the Preview for opera-

tion. The operator enters **C** for configuration or **D** for display following the Mode message and the cursor goes to the next field. If the job in this example was a display job the status line would look like this:

```
Queue:PV  Mode:D  D:█?  Fn:TEST
```

The D field in the status line is for selecting the source disk drive. The number of the disk drive containing the disk the job is on must follow the D. MCS systems have from 1 to 4 floppy disk drives numbered F1 to F4 respectively. If this value must be changed, the operator brings the cursor to the disk section of the status line and enters the desired drive number. For example, if the job being put into the Preview queue was in disk drive 2, the status line would look like this after **F/2** was entered in the drive field:

```
Queue:PV  Mode:D  D:F2  Fn:█EST
```

Changes to the Mode and Drive fields can be made in any sequence. Each of these fields will retain the last value entered. Thus they will often not have to be changed at all. Once the file name is entered and the Mode and Drive values are correct the operator hits the **EXECUTE** key to complete the sequence. The job will now be in the Preview queue.

The Preview queue may be brought to the MCS screen at any time by keying **DISP/P/V/EXECUTE**. Once the queue is examined hitting **ABORT** resumes normal MCS operation.

Included with the MCS Preview is a Configuration Disk #695493-XXXX. The Configuration Disk is used to provide basic character information and specific parameters to match the Preview to the MCS driving it. The following is a list of the files on this disk and a description of each:

CONFIG — Contains character sets and flash positions for MCS keyboard layouts 500, 501, 549, and 1614.

ASSIGN — A sample font assignment file that the user will have to modify to match the fonts in use.

BLACK — This file is used to select black type on a green background as the display mode for the Preview.

GREEN — This file is used to select green type on a black background as the display mode for the Preview.

NOTE: Since some changes must be made to the Configuration Disk, the user should make copies of the disk and save the original as a master.

The major user control is in the area of font assignments. The Font Assignment file allows the user to associate a specific font, via the font ID number, with the characteristics of that font so the Preview can display an appropriate representation of that typeface, layout and style. This is accomplished by altering the ASSIGN file on the Configuration Disk to match the fonts used in the MCS driving the Preview.

The Preview can store assignments for 256 fonts at one time. If the user has a larger number of fonts, more than one assignment file would be needed. These assignment files are created to duplicate the dress files used on the MCS.

To make changes, the Configuration Disk is inserted in the MCS and the ASSIGN file is called and edited as any job would be. Once modified, the file may be replaced or stored under another name if several assignment files are needed.

The parameters designated in the assignment file are:

1. The Keyboard Layout — Four font layouts are available in the Preview at one time. This is selected by:

K1.....501 Layout

K2.....500 Layout

K3.....549 Layout

K4....1614 Layout

NOTE: The above sample is the configuration provided with the Preview. Other layouts may become available at some future date to be substituted for these arrangements.

2. The Font Type — Assigns serif or sans serif as the display face for the font ID number. This is selected by:

F1.....Sans Serif

F2.....Serif

3. The Font Style — Assigns the font ID to a Roman, Bold, Italic or Bold/Italic type style display. This is selected by:

R.....Roman

B.....Bold

I.....Italic

BIBold Italic

4. The Scale — Gives the Preview a proportionate value for the width of characters in the event a font is called to be displayed whose width values are not in the Preview. This value may be set to 1 (one) for all fonts.
5. Typeface — this is the name of the font being assigned.

Creating A Configuration Disk (cont)

The following is a typical assignment file. The areas that should be edited to customize the file are in italics. This file may contain up to 256 assignments.

```
;Preview Font Assignments
ASSIGNMENT
;ID Number ----- KBD - FONT - STYLE - SCALE- TYPEFACE
ID 000501000705 - K1 --- F2 --- R ----- S1 - ;English Times
ID 000501000706 - K1 --- F2 --- I ----- S1 - ;English Times IT
ID 000501000707 - K1 --- F2 --- B ----- S1 - ;English Times BD
ID 000501002021 - K1 --- F1 --- R ----- S1 - ;Helios II
ID 000501002023 - K1 --- F1 --- B ----- S1 - ;Helios II BD
ID 000501001291 - K1 --- F2 --- R ----- S1 - ;Baskville II
ID 000501001293 - K1 --- F2 --- B ----- S1 - ;Baskville II BD
ID 000501001317 - K1 --- F1 --- I ----- S1 - ;Kabel BK
ID 000549000316 - K3 --- F2 --- R ----- S1 - ;Souvnr LT
ID 000549000338 - K3 --- F2 --- I ----- S1 - ;Souvnr DE
ID 000500000056 - K2 --- F2 --- R ----- S1 - ;Bodoni
ID 000500000022 - K2 --- F2 --- B ----- S1 - ;Bodoni BD
ID 001614002239 - K4 --- F1 --- R ----- S1 - ;Triumvirate Light
END
```

CAUTION — When editing any Preview configuration file, care must be taken to change only letters and numbers. The semi-colons, spacebands and returns are delimiters and are needed by the Preview to interpret the data.

Booting up the Preview requires a Preview Loader Program #695492-XXXX in addition to the MCS operational program. This program is loaded into the MCS in place of the MCS program. Therefore, booting the Preview requires bringing down and rebooting the MCS. The procedure is:

1. If not booting from power up verify that all MCS files are closed to prevent loss of data.
2. Insert the Preview Program Disk #695492 into MCS disk drive one.
3. Hit the Reset buttons on both the MCS controller and the Preview controller.
4. After several seconds a message will appear on the MCS screen saying "WAIT", then another message saying "REMOTE STATION PROGRAM LOADING" will come up, finally a message "Hit Return when Vol. 1 is in Drive 1". When this message comes up hit **RETURN** on the MCS main keyboard. (There is no disk to insert as Vol. 1 is part of this disk)
5. Once **RETURN** is hit "Program Vol. 1 Loading" will appear on the screen. The Preview program will now be loading. The loading takes about two minutes and is complete when the message "REMOTE SYSTEM PROGRAM LOADING COMPLETE" appears and the Preview status line appears at the bottom of the Preview screen with the message LOAD CONFIG.

6. Once the Preview status line comes up on the Preview screen, remove the Preview Program Disk and replace it with the MCS User Program Disk. The UPD is created using the SYS GEN program and must include the Preview Option Module. The creation of a UPD is described in the MCS Utility and Set-up Reference Manual #214814-XXX.
7. From this point on the MCS is booted as usual, be certain to hit Reset on the MCS controller **ONLY**. Once the Preview is booted up never hit Reset on the Preview controller.

NOTE: For detailed instructions on loading the MCS, see the "UTILITY AND SET UP PROCEDURES" or the "FILE MANAGEMENT and TYPESETTING" manual.

LOADING THE CONFIGURATION FILE

Once the Preview and MCS have been booted up the Preview must be configured. The procedure is:

1. Put the modified copy of the Configuration Disk #695493-XXXX in the MCS disk drive.
2. On the MCS hit **QUEUE/P/V/C/O/N/F/I/G**. Then verify that the Mode field of the status line has a C (indicating configuration file) and that the D (drive) field has the number of the disk drive containing the Configuration Disk. When these fields are correct hit **EXECUTE**. This puts the configuration file into the Preview queue of the MCS. When the Preview starts to receive the file the message "CONFIG. LOADING" will be displayed on the Preview. This will be followed by a "COMPLETE" message when the file transfer is completed. In the case of the CONFIG file this takes several minutes. The user can tell the file is still transferring by checking the light on the MCS disk drive. The light will stay on as long as the transfer is taking place.

LOADING THE ASSIGNMENT FILE

When the basic configuration is completed the user must tailor the Preview to his MCS. The first step is to send the font assignments to the Preview via the following steps:

1. On the MCS key **QUEUE/P/V/A/S/S/I/G/N/EXECUTE** (or the appropriate file name in place of ASSIGN), this sends the assignment file to the Preview. Since the Config. file was just sent the Mode and Drive fields will contain the proper values.
2. The Preview will give the messages "CONFIG LOADING" and then "COMPLETE" when the assignments are loaded.

TRANSFERRING THE DRESS FILE

The next step, and any time dress files are changed in the MCS, is to down-load the dress to the Preview. To do this, key **FILE FUNC/D/R/E/S/S/EXECUTE** on the MCS. This will send the widths for the fonts in the active MCS dress file directly to the Preview. If all of the user fonts are not in one assignment file, care must be taken to ensure all the fonts in the down-loaded dress are assigned at the time. If widths are down-loaded for an unassigned font, the Preview will give an 030 error.

CHANGING THE DISPLAY COLOR*

The Preview will configure with green type displayed on a black background. This may be changed to black type on a green background by sending the file named **BLACK** to the Preview. This a matter of operator preference, functionally the modes are identical. To switch colors:

1. On the MCS key **QUEUE/P/V/G/R/E/E/N/EXECUTE** or **B/L/A/C/K** if switching from green to black type. Since this is a configure function the Mode field on the status line must be set to C.
2. The Preview will give the messages "CONFIG LOADING" and then "COMPLETE". After the change is completed, hitting **RESET** and **CONF LOAD** or **CONT DISP** will make the change take affect.

The display color may be changed anytime via this procedure.

* This is an optional operation.

PREVIEWING A JOB FROM DISK

Once the Preview has been configured it is ready to operate. Files may be sent directly from the MCS disk by putting them in the Preview Queue. To send a file from disk, type **QUEUE** then **P** then **V** then the file name. Verify that the Mode and Drive fields of the status line have the proper values then hit **EXECUTE**. Queue indicates the file is to go into queue. PV indicates the active queue is the Preview Queue. Once a file is in the Preview Queue it is called to the Preview by hitting **CONT DISP** or **APND FILE** on the Preview Keypad.

PREVIEWING AN OPEN FILE

Files that are on the MCS screen may also be proofed on the Preview. Proofing is limited to the page that is open on the MCS at that time. To proof an open page, type **FILE FUNC/ P/R/O/O/F/EXECUTE**. This will send the active page to the Preview. Proofing cannot occur while the Preview Queue has jobs in it. If proofing is attempted with jobs in the Preview Queue, the MCS will give the message "PV Busy" and abort the attempt. When proofing, if the page cannot all fit on the Preview screen (indicated by the message "MORE" on the Preview) the MCS keyboard will be locked out until the display of the page is completed by hitting **CONT DISP** to bring the rest of the job to the screen.

APPENDING FILES

Operators may find it easier to work with smaller jobs on the MCS and then merge them together on the Preview screen via the **APND FILE** capability of the Preview. Instead of a job having numerous pages, each page would be an individual job. Each job is put into the Preview Queue in sequence and then called to the screen in order using the **APND FILE** key on the Preview keypad.

The Preview has a Status Line which appears at the bottom of the Preview screen whenever there is a status change. This line is visible for 10 seconds then disappears so it will not interfere with the displayed job. The Status Line can be called back to the screen by hitting **VIEW** on the Preview Keypad.

In addition to giving status information, Preview Error Codes will appear on this line. Preview error codes stay on the status line until a reset has eliminated them. The following is a list of error codes and a definition of each:

Data Errors

- 004** — Command not Implemented
- 005** — Bad argument for command
- 006** — Font not loaded
- 007** — Invalid font
- 008** — Unable to print character
- 009** — Reverse leading puts text off top of screen

Configuration Data Errors

- 010** — Font 1 character number error
- 011** — Font 2 character number error
- 012** — Font 1 width error
- 013** — Font 2 width error
- 014** — Font 1 character definition too big
- 015** — Font 2 character definition too big
- 016** — Font 1 margin reference wrong
- 017** — Font 2 margin reference wrong
- 018** — Font 1 baseline reference wrong
- 019** — Font 2 baseline reference wrong
- 020** — Font 1 matrix data wrong
- 021** — Font 2 matrix data wrong
- 022** — B or G missing after polarity
- 023** — Bad form in polarity after B or G
- 024** — Bad assignment - ID format
- 025** — Bad assignment - keyboard format

- 026** — Bad assignment - font format
- 027** — Bad assignment - style format
- 028** — Bad assignment - scaling format
- 029** — Too many assignments (more than 256)
- 030** — No assignment for incoming widths
- 031** — More than 32 widths sent
- 032** — Layout 1 - position error
- 033** — Layout 2 - position error
- 034** — Layout 3 - position error
- 035** — Layout 4 - position error
- 036** — Layout 1 - character error
- 037** — Layout 2 - character error
- 038** — Layout 3 - character error
- 039** — Layout 4 - character error
- 040** — Duplicate ID number
- 041** — Status message number error
- 042** — Status message text error
- 043** — No room to store message
- 044** — Message format error (hyphen missing)
- 045** — Illegal character in message text

Configuration Loader Errors

- 148** — Block names missing or misspelled
- 149** — Font memory full
- 150** — Segment out of range
- 151** — Widths from vdt in bad form
- 157** — Get character function error
- 158** — Get character data error

Communications Errors

- 130** — Slave text error
- 131** — Slave text command not recognized
- 171** — Link disconnected
- 172** — Retry failure
- 173** — No response from station
- 174** — No response from station

Slave Controller Errors

- 178 — Communication read error
- 179 — Communication write error
- 180 — Communication test error
- 181 — Improper DCB or command
- 182 — Station type wrong
- 183 — Hardware failure
- 185 — Wrong size buffer for data
- 187 — Wrong size buffer for data
- 188 — Other communications errors
- 189 — Formatter error
- 190 — Queue error
- 191 — Keypad command error
- 192 — Keypad system error
- 193 — Initializer error
- 194 — File error
- 195 — Display error
- 196 — Configuration loader error
- 206 — View command out of phase
- 207 — Scale command error
- 208 — Hardware failure
- 210 — Unrecognized status
- 211 — Segment out of range
- 212 — Scaling aborted
- 214 — Character too large
- 216 — Scaling command error
- 217 — Reverse type window too small
- 218 — Reset error from scaling
- 220 — Unknown status returned from scaling

If the Preview is operated with an MCS system using an 8212 Typesetter, special considerations are required for font ruling. Four special configuration files are included on the #595493-XXXX Configuration Disk for 8212 font ruling. Each of these files assigns the characters required to draw 8212 rules to a different Preview keyboard. As was explained on page five there are four internal Preview keyboard locations. To view 8212 rules, one of these must be sacrificed for the rule layout. The four ruling configuration files and the keyboards they replace are:

FONT.RULES-1	K1.....501
FONT.RULES-2	K2.....500
FONT.RULES-3	K3.....549
FONT.RULES-4	K4.....1614

The operator decides which keyboard layout can be eliminated and configures the Preview with the file named **FONT.RULES-1** or **2** or **3** or **4**. The number in the file name will be the number of the keyboard being replaced.

Once the font rules are in a keyboard location the 8212 Font Ruling Font must be assigned like any other font. The last assignment in the sample **ASSIGN** file on the 695493-XXXX Configuration Disk is typical of such an assignment. As assigned in the sample, the font rules would be in keyboard one. This is indicated by the **K1** in the keyboard column of the font assignments. The number with the **K** would have to be changed to correspond to whatever keyboard was replaced if the rule characters were put in one of the other three locations.

EXAMPLE: The operator determines that for the job being previewed the 549 keyboard layout will not be needed. Since this is **K3** the procedure would be:

1. On the Preview keypad hit **RESET/CONF LOAD**.

2. On the MCS keyboard enter the following sequence **QUEUE/P/V/F/O/N/T/.R/U/L/E/S/-/3/EXECUTE**.
3. The operator must be sure the 8212 ruling font is assigned and that the assignment selects **K3** for the keyboard.
4. If the Preview must be reconfigured with an altered assignment file be sure to retransfer the font widths via **FILE FUNC/D/R/E/S/S/EXECUTE**.
5. The job is then previewed as usual.

If the operator of an 8212/MCS/Preview does not require one of the normal keyboard arrangements the appropriate **FONT.RULES** file could be appended on to the end of the **CONFIG** file and the Preview would always configure with the font ruling characters available.

As can be seen from this, if one of the four keyboard locations can be permanently devoted to ruling it will make previewing of 8212 font ruling jobs much simpler. If one keyboard can not be eliminated, the rule keyboard will have to be swapped around as needed. Once the rule keyboard is loaded over one of the standard keyboard arrangements, the Preview must be reconfigured with the configuration (**CONFIG**) and assignment files to return to the standard configuration.

NOTE: If the ruling file is moved to a keyboard location it is a three step operation. The font ruling file must be put into a keyboard. The assignment file must be changed to put the font ruling font in that same keyboard. When the Preview is reconfigured with a new assignment file the dress widths must be retransferred by hitting **FILE FUNC/D/R/E/S/S/EXECUTE**.



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